

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai - 600 044.

B.Sc.Physics - END SEMESTER EXAMINATIONS - NOV'2024

SEMESTER - II

22UPHAT2002 - Chemistry for Physics - II

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Discuss the Carnot's cycle.
2. Outline the synthesis and applications of Buna-N and Buna-S.
3. Justify the properties of sucrose and inversion of cane sugar.
4. Enumerate the types of RNA and give its functions.
5. Predict the methods to control corrosion by internal means.
6. Illustrate the synthesis and application of Thermosetting plastics.
7. Discuss about open-chain structure of glucose and fructose.
8. Differentiate DNA and RNA.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Discuss the illustration and applications Hess's law.
10. Recommend the methods to prevent external corrosion.
11. Elaborate the preparation and applications of the following polymers
(i) Polyvinyl Chloride (ii) Nylon
12. Analyse the properties of glucose and fructose.
13. Examine the replication, translation and transcription of DNA.
